

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/003724

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H05B33/02, H05B33/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H05B33/00-28, H01L33/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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|---------------------------|-----------|----------------------------|-----------|
| Jitsuyo Shinan Koho | 1926-1996 | Toroku Jitsuyo Shinan Koho | 1994-2004 |
| Kokai Jitsuyo Shinan Koho | 1971-2004 | Jitsuyo Shinan Toroku Koho | 1996-2004 |

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|---|
| X | JP 11-283751 A (NEC Corp.), 15 October, 1999 (15.10.99), Claims 2, 7; Par. Nos. [0021] to [0022] (Family: none) | 1-4, 6-8, 10-11, 13-15, 21, 29-32 |
| Y | | 5, 9, 12, 17-20, 25-28 |
| X | JP 11-329740 A (Matsushita Electric Industrial Co., Ltd.), 30 November, 1999 (30.11.99), Claims 5, 15 to 16 (Family: none) | 1-8, 10-11, 13-15, 29-34 |
| Y | | 5, 9, 12, 17-20, 25-28 |
| X | JP 2001-230069 A (NEC Corp.), 24 August, 2001 (24.08.01), Full text; all drawings (Family: none) | 1-8, 10-11, 13-15, 23-26, 29-32 |
| Y | | 5, 9, 12, 17-20, 25-28 |

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
30 June, 2004 (30.06.04)

Date of mailing of the international search report
20 July, 2004 (20.07.04)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/003724

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|--|
| X | Takashi YAMASAKI, 'Organic light-emitting device with an ordered monolayer of silica | 1-3, 5, 8-16, |
| Y | microspheres as a scattering medium', 'Applied Physics Letters, 06 March, 2000 (06.03.00), Vol.76, No.10, whole document, pages 1243 to 1245 | 22-24, 29-32 4, 7, 17-20, 25-28 |
| X | John M. Lupton, 'Bragg scattering from periodically microstructured light emitting diodes', Applied Physics Letters, 20 November, 2000 (20.11.00), Vol.77, No.21, abstract, page 3340, left column, lines 27 to 34, page 3342, right column, lines 18 to 27. | 1-4, 6-8, 10, 13-15, 29-32 5, 9, 12, 17-20, 25-28 |
| Y | JP 11-84117 A (Fujikura Ltd.), 26 March, 1999 (26.03.99), Par. Nos. [0002] to [0006] (Family: none) | 17-20 |
| Y | JP 2003-29654 A (Sony Corp.), 31 January, 2003 (31.01.03), Claims 14 to 15; column 3, lines 24 to 26; Par. Nos. [0018] to [0019]; Fig. 10 (Family: none) | 25-28 |
| P, X | JP 2003-115377 A (NEC Corp.), 18 April, 2003 (18.04.03), Full text; all drawings (Family: none) | 21 |
| E, X | JP 2004-128445 A (Matsushita Electric Works, Ltd.), 22 April, 2004 (22.04.04), Par. Nos. [0088] to [0089] (Family: none) | 17-19 |
| P, X | JP 2003-163075 A (NEC Corp.), 06 June, 2003 (06.06.03), Par. No. [0011]; Fig. 4 (Family: none) | 1-4, 6-8, 10, 13-15, 29-34 5, 9, 12, 17-20, 25-28 |
| P, Y | | |